Abstract

The invention relates to an electromagnetic coupler for a motor vehicle. The inventive coupler consists of: a first electric machine having an axis A and comprising a first stator (50) bearing a first coil (52), an input rotor (20) and a first part (23; 157) of an output rotor (30); and a second electric machine comprising a second stator (40) bearing a second coil (100) and a second part (44; 177) of the output rotor (30). The input rotor (20) comprises an inner drum (77) which is spaced apart from the first part (23; 157) of the output rotor (30) and from the first yoke (60), while the second yoke (43) is spaced apart from the second part (44; 177) of the output rotor (30) by a second air gap (98; 106). According to the invention, the first coil (52) is wound onto the yoke (60) of the first stator (50) around axis A.